

Appl. No. 10/634,458
Amdt. Dated March 20, 2006
Reply to Office Action of September 19, 2005

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1-15 (Cancelled).

Claim 16 (Currently Amended): A system for the supply of elevated pressure and temperature fluid to a process system, said system comprising:

a pressurized fluid delivery system including a process fluid supply system and pump for supplying a process fluid at a pressure of at least a process pressure, and a process fluid heater for heating said process fluid to a process fluid mixing temperature;

a pressurized additives delivery system including an additives supply system and pump for supplying additives at a pressure of at least said process pressure, and an additives heater for heating said additives to a additive mixing temperature suitable for mixing with said process fluid;

a directional valve, disposed between said process fluids heater, said additive heater and the process system, said process fluid heater, said additives heater, said directional valve being controlled by a computer control system; and

said pressurized fluid delivery system and said pressurized additives delivery system being connected to said directional valve such that a computer controlled ratio of process fluids and additives can be admitted through said ~~mixing~~ directional valve.

Claim 17 (Currently Amended): The system according to claim 16 further comprising a mixer, said mixer being disposed between said ~~mixing~~ directional valve and the process system.

Claim 18 (Original): The system according to claim 17 wherein said mixer is chosen from the group of mixers consisting of static and dynamic mixers.

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Claim 19 (Original): The system according to claim 17 further comprising:
a mixture heater;
said mixture heater being disposed between said mixer and the process system; and
said mixture heater heating said mixture to at least a process temperature.

Claim 20 (Original): The system according to claim 19 wherein said process temperature induces a phase change in at least said process fluid from a liquid phase to a supercritical phase.

Claim 21 (Original): The system according to claim 17 further comprising a shunt disposed between said mixer and the process system, for selectively diverting said process fluid and additives from the process system.

Claim 22 (Original): The system according to claim 16 wherein said process fluid mixing temperature is at least equal to a process temperature.

Claim 23 (Original): The system according to claim 16 wherein said process fluid mixing temperature induces a phase change in said process fluid from a liquid phase to a supercritical phase.

Claim 24-26 (Cancelled).